

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121322\  
 Data File : VY011805.D  
 Acq On : 13 Dec 2022 19:35  
 Operator : KP/MD  
 Sample : N6037-10MS  
 Misc : 6.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-22-(8-10)MS

Quant Time: Dec 13 22:19:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 12/14/2022  
 Supervised By :Mahesh Dadoda 12/14/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 174409     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 242938     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 188698     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 78273      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 35375      | 27.574  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 55.140% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 47109      | 43.109  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 86.220% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 159139     | 44.200  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 88.400% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 52853      | 36.270  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 72.540% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 36848      | 47.302  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 39658      | 41.840  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 52346      | 46.722  | ug/l   | 98       |
| 5) Bromomethane              | 2.656          | 94   | 28738      | 37.326  | ug/l   | 97       |
| 6) Chloroethane              | 2.796          | 64   | 34975      | 40.440  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 109232     | 45.560  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.527          | 74   | 21081      | 25.103  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 66828      | 46.693  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.088          | 142  | 76514      | 45.661  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 12690      | 43.021  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 56781      | 43.991  | ug/l   | 97       |
| 13) Acrolein                 | 3.729          | 56   | 20224      | 82.257  | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 81294      | 37.916  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.161          | 53   | 43853      | 97.290  | ug/l   | 98       |
| 16) Acetone                  | 3.948          | 43   | 46225      | 97.064  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.198          | 76   | 120169     | 40.767  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.479          | 43   | 37118      | 32.101  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 105248     | 26.042  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.716          | 84   | 68179      | 38.914  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 58905      | 40.604  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.118          | 45   | 160388     | 34.287  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.064          | 43   | 231967m    | 86.922  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 112811     | 39.686  | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 56238      | 91.806  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 110741     | 41.408  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 66166      | 37.317  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 32019      | 30.940  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 32795      | 94.059  | ug/l   | 100      |
| 30) Chloroform               | 7.508          | 83   | 115574     | 38.031  | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 98904      | 48.605  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 121337     | 44.770  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 92773      | 50.324  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.070          | 43   | 21305      | 19.767  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 113065     | 52.212  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.185          | 83   | 106409     | 51.299  | ug/l   | 99       |
| 40) Benzene                  | 8.161          | 78   | 244350     | 44.367  | ug/l   | 99       |

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 12/14/2022  
 Supervised By :Mahesh Dadoda 12/14/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 12258m   | 22.529  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 54693    | 32.114  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 44549    | 22.795  | ug/l # | 87       |
| 44) Trichloroethene           | 8.941  | 130  | 69308    | 44.934  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 55191    | 38.719  | ug/l   | 98       |
| 46) Dibromomethane            | 9.307  | 93   | 23684    | 29.683  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 76984    | 37.346  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 24084    | 27.957  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 4369     | 395.249 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 123381   | 114.574 | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 156350   | 44.656  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 62965    | 30.580  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 79785    | 34.488  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 35571    | 30.162  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 34813    | 22.867  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 59618    | 30.327  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 90196    | 127.768 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 81458    | 105.871 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.983 | 129  | 46773    | 31.666  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 29101    | 27.238  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 63438    | 47.517  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.514 | 112  | 152774   | 44.933  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 58944    | 44.688  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 299712   | 50.028  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 230228   | 100.348 | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 104120   | 47.611  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 163278   | 43.745  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 24880    | 30.581  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 309842   | 61.097  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 29588    | 24.266  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 34887    | 35.324  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 26027m   | 32.866  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 53898    | 45.519  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 354807   | 58.381  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 185238   | 53.406  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 242481   | 56.568  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 10270    | 29.428  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 181488   | 50.448  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 222602   | 59.639  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 223251   | 52.897  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 328657   | 59.126  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 258529   | 55.881  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 107533   | 45.128  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 99294    | 41.927  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 221019   | 52.552  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 48417    | 52.666  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 85063    | 39.670  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 4206     | 24.426  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 33424    | 26.726  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 30943    | 38.940  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 45507    | 18.787  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 24323    | 22.516  | ug/l   | 100      |

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Quant Title : SW846 8260  
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Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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